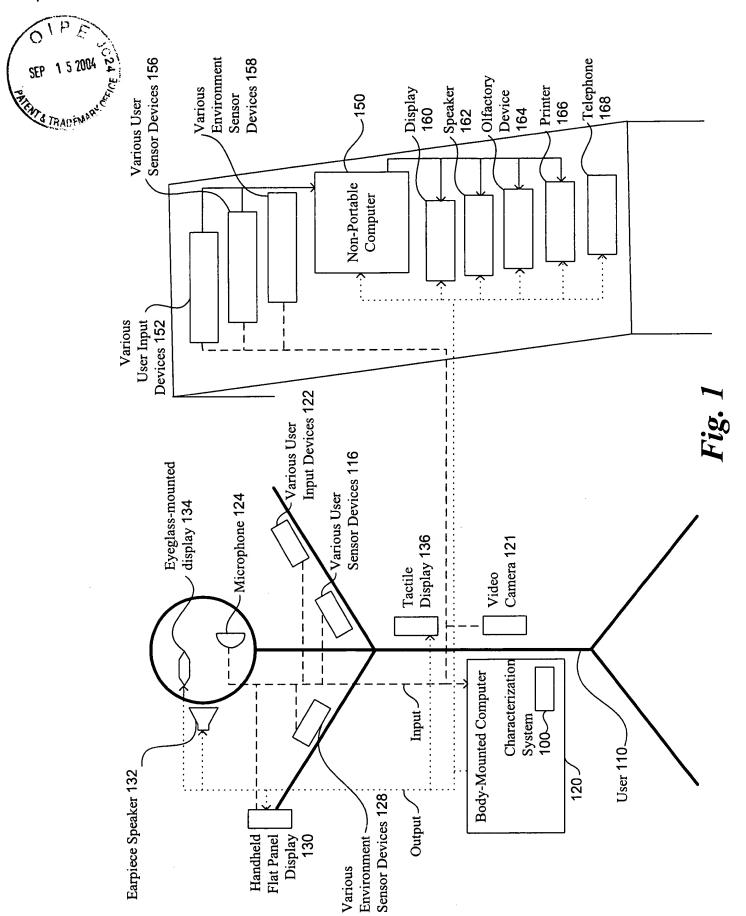
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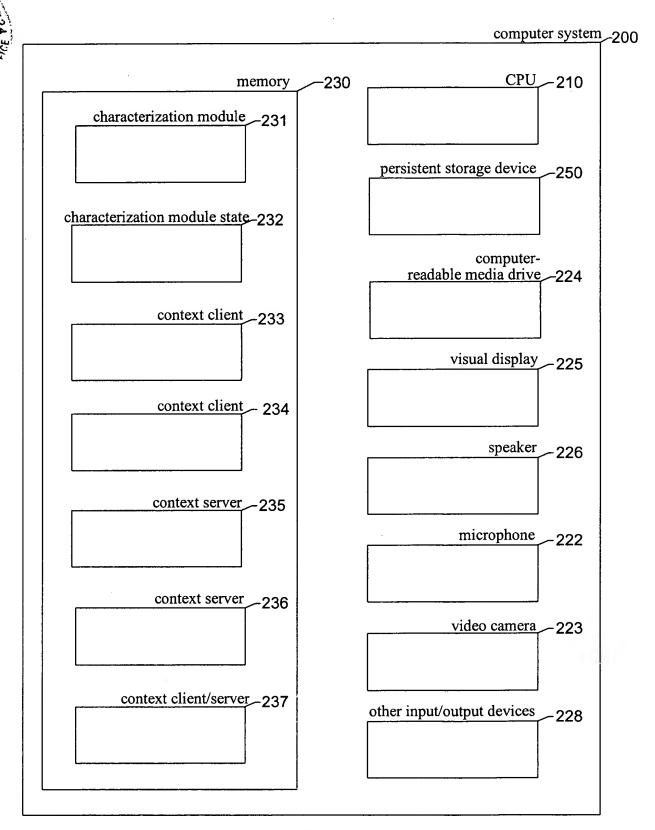
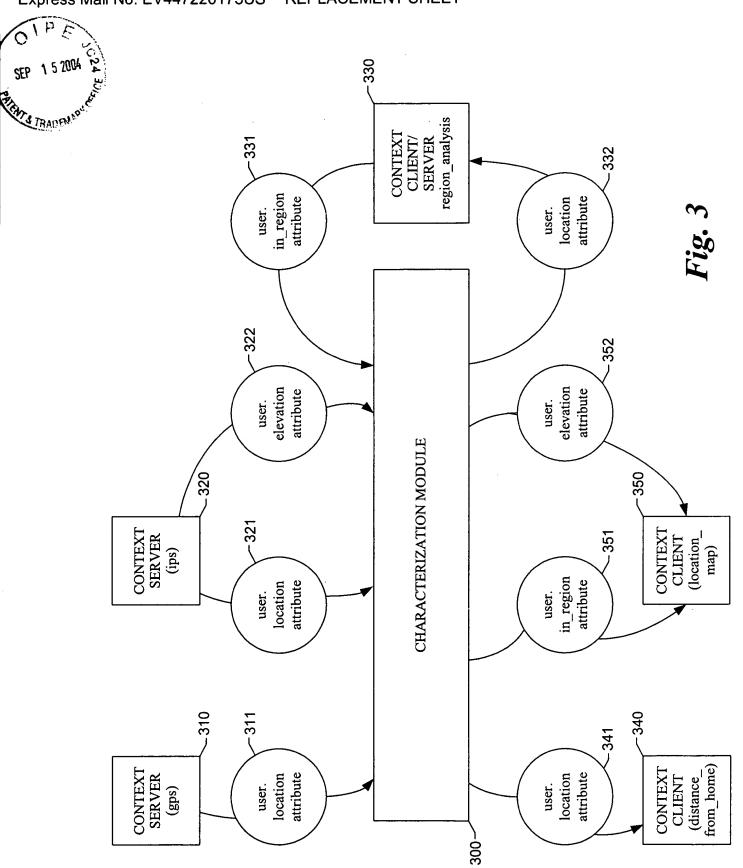


Fig. 2

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	2/10/2000	2/21/2000	2/10/2000	112 413
version	2/10/2000	2/21/2000	2/10/2000	412 413
context server name	gps 1	ips 1	403—location_region_analysis 1	_411

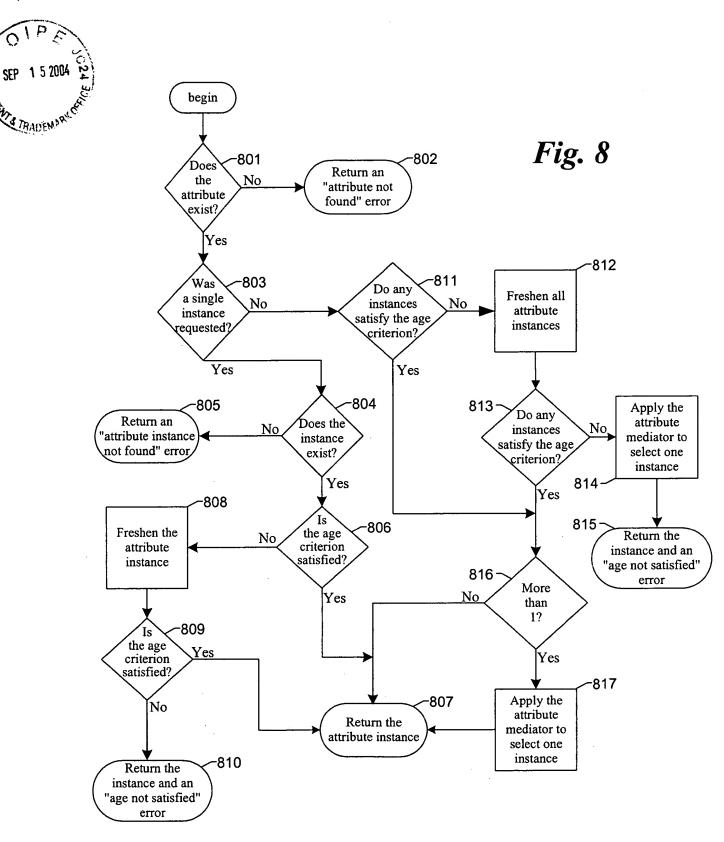
500						attribu	attribute instance table
	attribute name	context server name	value	uncertainty	timestamp	units	number of context clients consuming
501	user.location	sd8	47° 38.73° N, 122° 18.43° W	0° .09'	13:11:04.023 2/22/2000	degrees/minutes	2
505	user.location	. sdi	47° 38.745° N, 122° 18.424° W	0° .021°	13:11:01.118 2/22/2000	degrees/minutes	2
503	user.elevation	sdi	22	.5	13:11:01.118 2/22/2000	meters	1
504	user.in_region	location_region_ analysis	none	none	none	none	0
	-511	515	-513	-514	-515	- 516	-517

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-009	/					context	context client table	
	context clent name	e e		message handler	ller	3000		
601	601_location_map			(reference)				
602	distance_from_home	me		(reference)				
603	region_analysis			(reference)				
		-611	Fi	Fig. 6		_612		
8						attribut	attribute instance table	
	attribute name	context server name	value	uncertainty	timestamp	units	number of context clients consuming	
701/	user.location	sdä	47° 38.73° N, 122° 18.43° W	.60°.0	13:11:04.023 2/22/2000	degrees/minutes	2	
702~	user.location	sdī	47° 38.745° N, 122° 18.424° W	0° .021'	13:11:01.118 2/22/2000	degrees/minutes	2	
703	user.elevation	sdī	22	٨:	13:11:01.118 2/22/2000	meters	· · ·	
704	user.in_region	location_region_ analysis	none	none	none	none	1	
	_711	712	_713	714	715	716	717	
			Fig	7 0				

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900	,					attribut	attribute instance table
	attribute name	context server name	value	uncertainty	timestamp	units	number of context clients consuming
901	user.location	sdä	47° 38.73' N, 122° 18.43' W	.00°.09	13:11:04.023 2/22/2000	degrees/minutes	2
905	user.location	sdi	47° 38.745° N, 122° 18.424° W	0° .021'	13:11:01.118 2/22/2000	degrees/minutes	2
903	user.elevation	sdi	22.25	.5	13:11:06.565 2/22/2000	meters	1
<del>- 406</del>	user.in_region	region_analysis	none	none	none	none	1
	-911	915	-913	914	-915	916	-917
			$F_1$	Fig. 9			

condition table logical operator -1016 11 comparison value 1015 TRUE second logical 1014 parameter none **L1013** first logical parameter user.in\_region context client name **~1012** region\_analysis condition name **~1011** in\_region\_true 1001 1000

Fig. 10



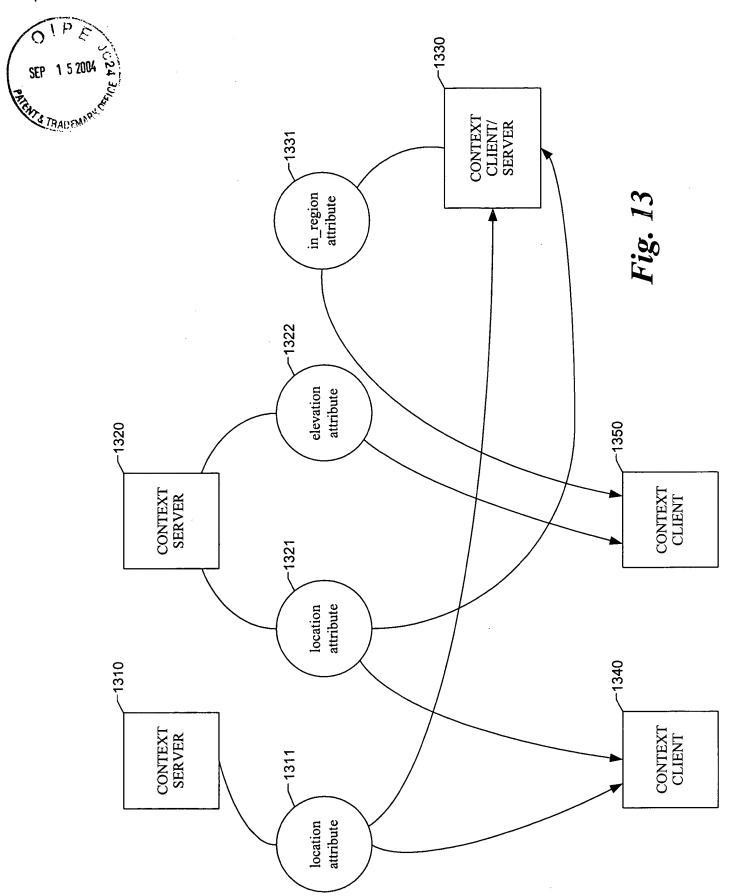
1100 ~							condition monitor table	onitor table
	condition monitor name	context client namecondition namebehaviorfrequencycondition lasttrigger handler	condition name	behavior	frequency	condition last evaluated	trigger handler reference	stopped
1101/	region_boundary_	region_analysis	in_region_true TRUE or 30 FALSE	TRUE or FALSE	30	13:11:29.101 2/22/2000	(reference)	ou
	/1111	_1112	<u>-1113</u>	11114	4 -1115	5 -1116	1117	1118

Fig. 11

<u>∞</u>	1218	1217	5 \-1216	4 \_1215	1214	_1213	1212	_1211	
	yes	(reference)	13:11:59.101 2/22/2000	30	TRUE or FALSE	in_region_true   TRUE or 30   FALSE	region_analysis	region_boundary_ 1201 < crossed	1201
	stopped	condition name behavior frequency condition last trigger handler stopped evaluated reference	condition last evaluated	frequency	behavior	condition name	condition monitor context client name name	condition monitor name	
	nitor table	condition monitor table		;					1200 ~

Fig. 12

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		attribute request table
	attribute name	context client name
1401~	user.location	distance_from_home
1402~	user.in_region	location_map
	user.location [gps]	location_region_analysis
	user.elevation	location_map
	1411	1412

Fig. 14

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User.	Platform. (continued)
Desired privacy level	CPU.
Interruptibility	Load
Speed	Speed Fig. 15
Direction	Memory.
Acceleration	Total capacity
Availability.	Used
Cognitive availability	Storage.
Tactile availability	Total capacity
Manual availability	Used
Visual_availability	Connectivity.
Oral_availability	Connection_status
Auditory_availability	Connection_speed
Proximity. <item name="" or="" place=""></item>	Connection_type/device
Mood.	Connection_activity
Happiness	Power.
Sadness	Power_source
Anger	Power_level
Frustration	Environment.
Confusion	People.
Activity.	Nearest
Driving	Number_present
Eating	Number_close
Running	Local.
Sleeping	Time
Talking	Date
Typing	Temperature
Walking	Pressure
Location.	Wind_speed
Place_name	Wind_direction
Latitude	Absolute_humidity
Longitude	High_forecast_temperature
Altitude	Low_forecast_temperature
Room	People_present
Floor	Ambient_noise_level
Building	Ambient_light_level
Address	Days. <pre>cprevious or future&gt;.</pre>
Street	High_temperature
City	Low_temperature
County	Precipitation_type
State	Precipitation_amount
Country	Place. <place name="">. (same as Environment.Local)</place>
Postal_Code	Application.
Destination. (same as User Location.)	Mail.
Physiology.	Available
Pulse	New_messages_waiting
Body_temperature	Messages_waiting_to_be_sent
Blood_pressure	Phone.
Respiration	Available
Person. <name id="" or="">. (same as User.)</name>	In_use
Platform.	On/off
UI.	Notification_mechanism
Oral_input_device_availability	Call_incoming
Manual_input_device_availability	Caller_ID
Tactile_output_device_availability	Sound_recorder. Available
Visual_output_device_availability	
Auditory_output_device_availability	Recording

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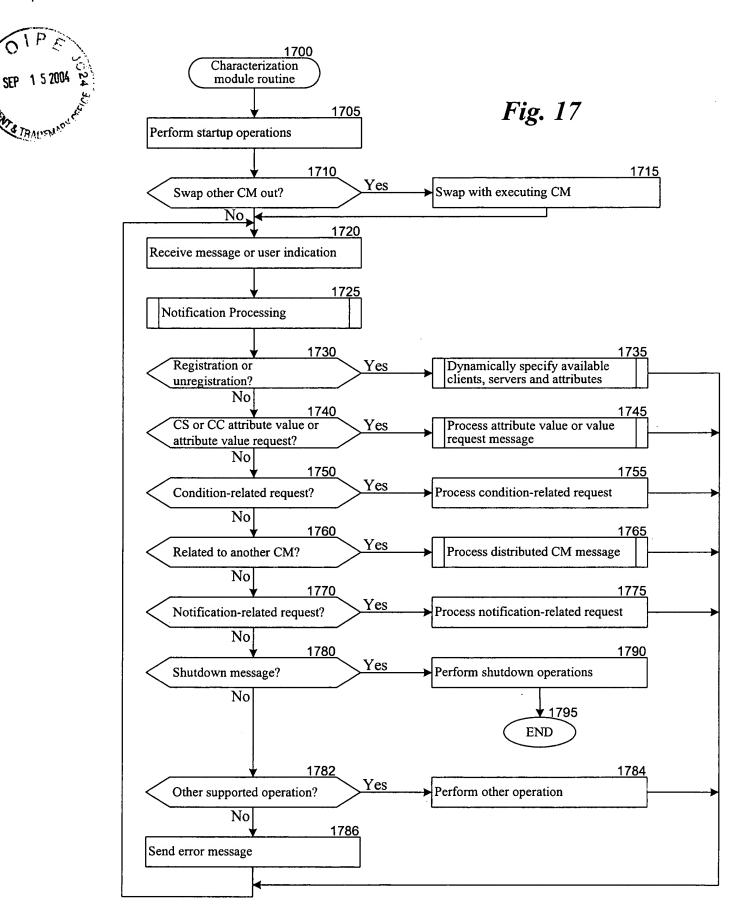
1) User Setting

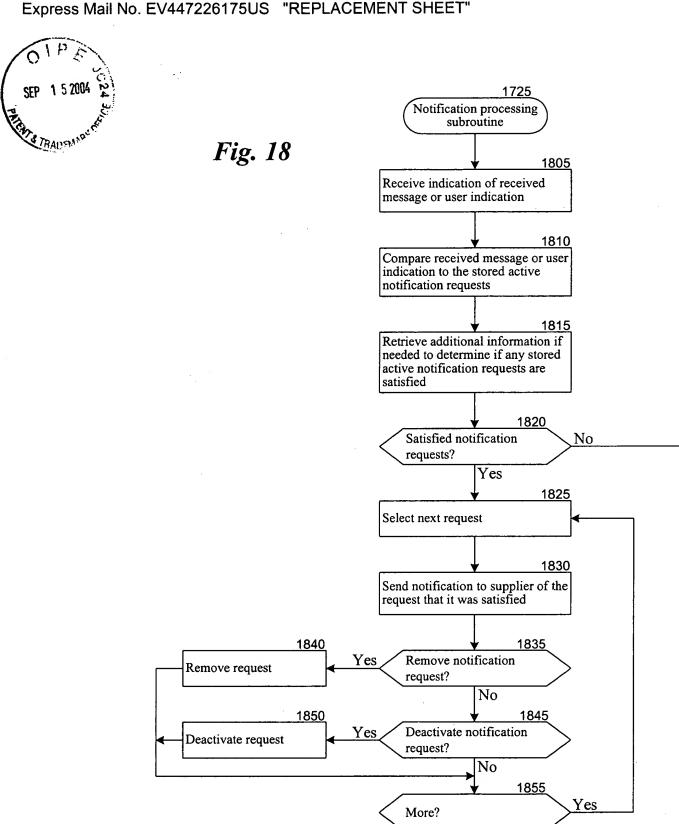
- a) Mental Context
  - i) Meaning
  - ii) Cognition
    - (1) Divided User Attention
    - (2) Task Switching
    - (3) Background Awareness
  - iii) Solitude
  - iv) Privacy
    - (1) Desired Privacy
    - (2) Perceived Privacy
  - v) Social Context
  - vi) Affect
- b) Physical Situation
  - i) Body
    - (1) Biometrics
    - (2) Posture
    - (3) Motion
    - (4) Physical Encumberment
      - (a) Senses
        - (i) Eyes
        - (ii) Ears
        - (iii) Tactile
        - (iv) Hands
        - (v) Nose
        - (vi) Tongue
      - (b) Workload demands/effects
      - (c) Interaction with computer devices
      - (d) Interaction with people
      - (e) Physical Health
  - ii) Environment
    - (1) Time/Space
    - (2) Objects
    - (3) Persons
      - (a) Audience/Privacy Availability
        - (i) Scope of Disclosure
        - (ii) Hardware affinity for privacy
        - (iii) Privacy Indicator for User
        - (iv) Privacy Indicator for Public
        - (v) Watching Indicator
        - (vi) Being Observed Indicator
    - (4) Ambient Interference
      - (a) Visual
      - (b) Audio
      - (c) Tactile

2) Computer

Fig. 16

- a) Power
- b) Configuration
  - i) User Input Systems
    - (1) Hand/Haptic
      - (a) Keyboard/Keystrokes
    - (2) Voice/Audio
    - (3) Eve Tracking
    - (4) Cursors
      - (a) Axis
      - (b) Resolution
        - (i) Selection
        - (ii) Invocation
      - (c) Accelerators
  - ii) Output Systems
    - (1) Visual
      - (a) Resolution
    - (2) Audio
      - (a) Public/Private
    - (3) Haptic
  - iii) External Resources
    - (1) I/O devices
    - (2) Connectivity
- c) Data
  - i) Quantity/State
  - ii) Urgency/Importance
    - (1) Use of Prominence
  - iii) Modality
  - iv) Sensitivity/Purpose
    - (1) Privacy Issues
    - (2) Use of Association
    - (3) Use of Safety
  - v) Source/Ownership
    - (1) Types
      - (a) User generated
      - (b) Other computers or people
      - (c) Sensor
      - (d) PC State
    - (2) Use of Association

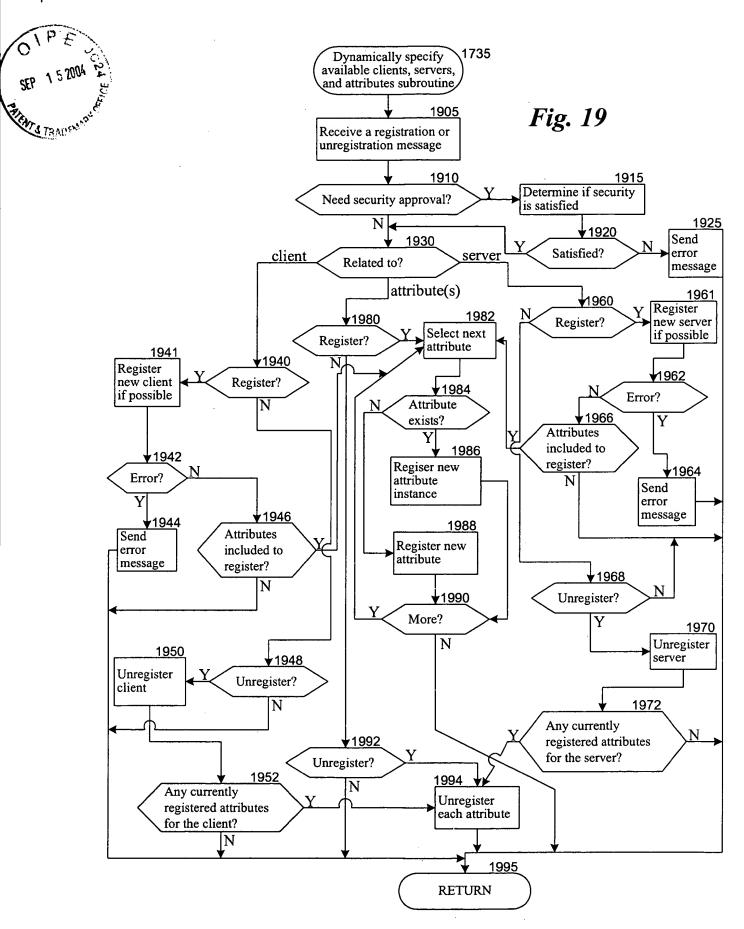


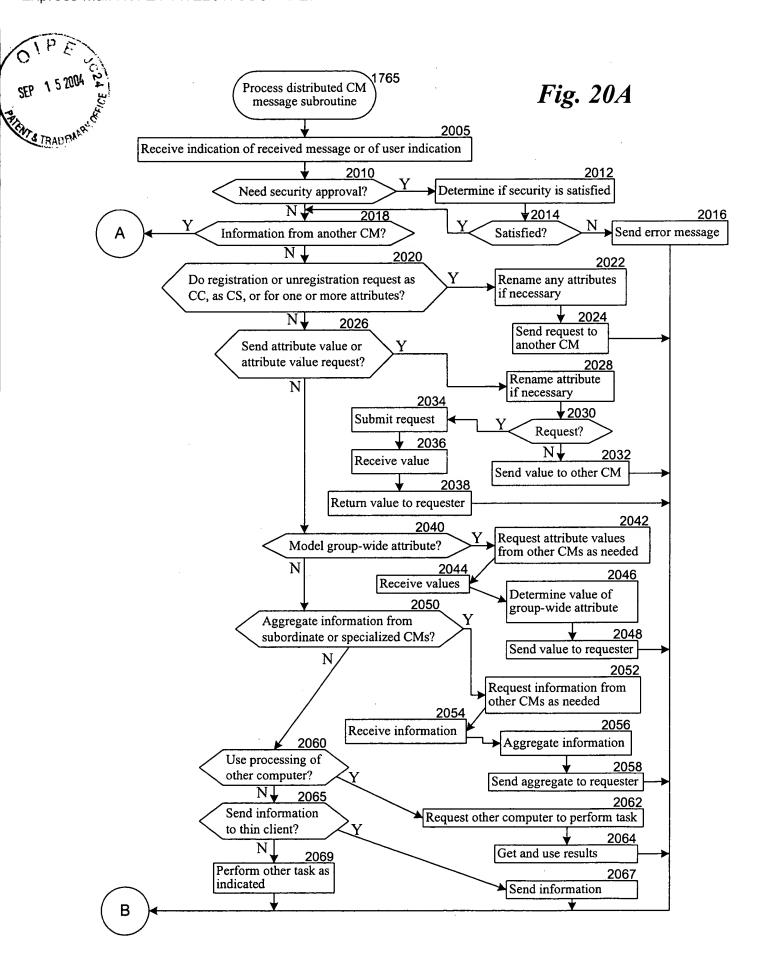


No

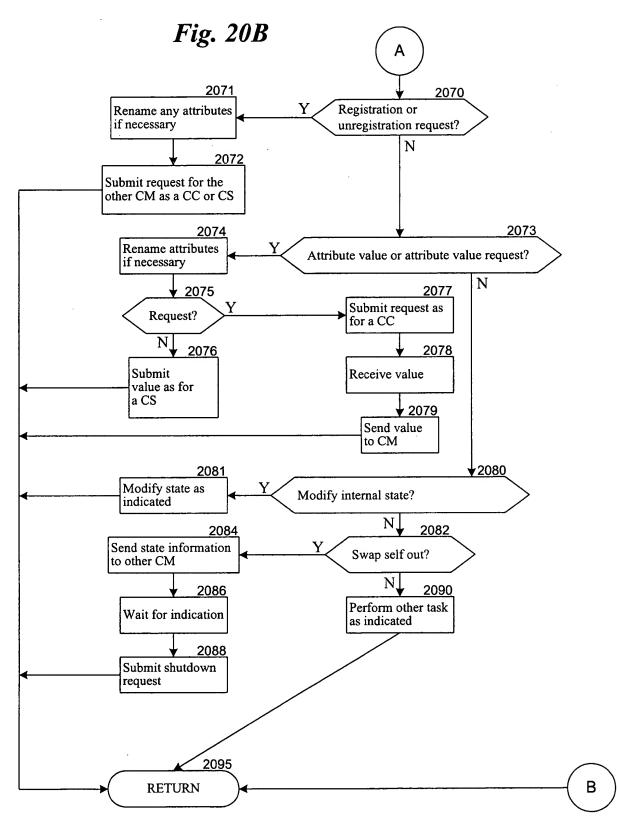
**RETURN** 

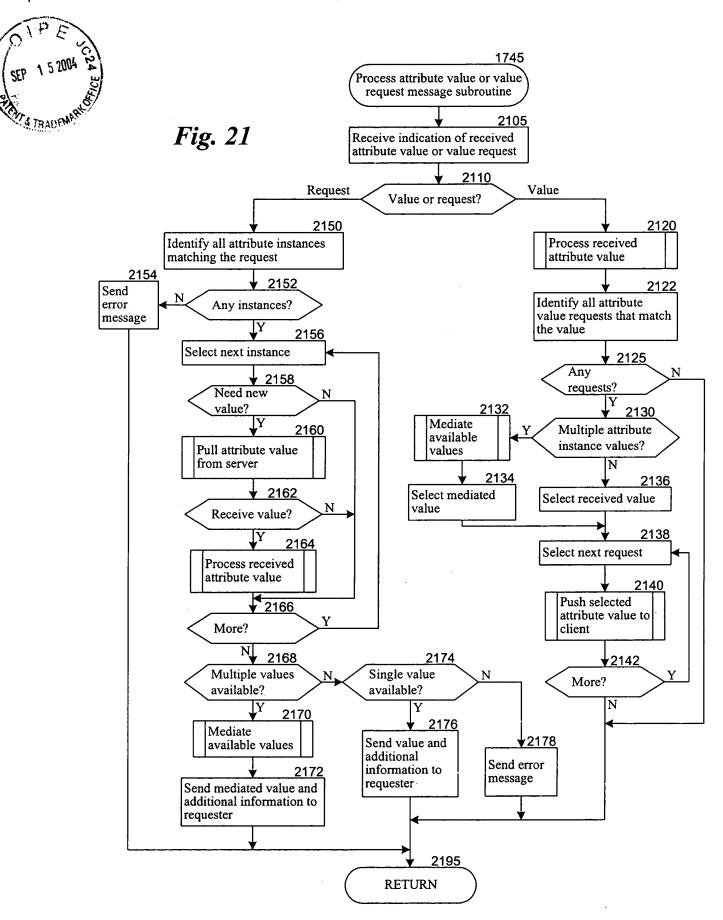
1895











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